

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	90	(directional near2 coupler) same grating same ((refractive or reflective) near2 (index or indice))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/18 08:21
L2	5	((("7006717") or ("5412743") or ("5420947") or ("6404958") or ("20020122629"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/04/18 08:22
L3	15	((("6118908") or ("4796975") or ("4645293") or ("3957341") or ("6072925") or ("5517589") or ("2003002789") or ("6360038") or ("5978524") or ("6141465") or ("5664032") or ("5544268") or ("6167169") or ("6078704") or ("5911018") or ("5912997"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/04/18 08:22
L4	16	((("6118908") or ("4796975") or ("4645293") or ("3957341") or ("6072925") or ("5517589") or ("20030002789") or ("6360038") or ("5978524") or ("6141465") or ("5664032") or ("5544268") or ("6167169") or ("6078704") or ("5911018") or ("5912997"))).PN.	US-PGPUB; USPAT	OR	OFF	2006/04/18 08:22
L5	7	("6072925").URPN.	USPAT	OR	ON	2006/04/18 08:22
L6	3284	385/37.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/18 08:22
L7	3930	385/129-132.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/18 08:22
L8	300	L6 and L7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/18 08:22
L9	1	("6771857").URPN.	USPAT	OR	ON	2006/04/18 08:22

## EAST Search History

L13	627	("20010026659"   "20020191912"   "20020192850"   "20030091080"   "20030091081"   "20030169787"   "20030174961"   "3674335"   "3719906"   "3753157"   "3760292"   "3760297"   "3771129"   "3791715"   "3871742"   "3898585"   "3904270"   "3908121"   "3924931"   "3944812"   "3957341"   "3990780"   "3995936"   "4006432"   "4006963"   "4039249"   "4047795"   "4076381"   "4082425"   "4102560"   "4122479"   "4146297"   "4156206"   "4169001"   "4239329"   "4246568"   "4273411"   "4340300"   "4369202"   "4394060"   "4400616"   "4415226"   "4425023"   "4453801"   "4455063"   "4455064"   "4464762"   "4470661"   "4523803"   "4525687"   "4592043"   "4637684"   "4640592"   "4645293"   "4665528"   "4671603"   "4687286"   "4688900"   "4693548"   "4704720"   "4707059"   "4716570"   "4718052"   "4721352"   "4745616"   "4746186"   "4747649"   "4748614"   "4755015"   "4756587"   "4763972"   "4767169"   "4775980"   "4776661"   "4778991"   "4796273"   "4798429"   "4803696"   "4831631"   "4838630"   "4846540"   "4849080"   "4859014"   "4866694"   "4869568"   "4888785"   "4904045"   "4911516"   "4915482"   "4919507"   "4937808"   "4938568"   "4941722"   "4943556"   "4946253"   "4958357"   "4961632"   "4969712"   "4971415"   "5002369"   "5009483"   "5010458"   "5031983"   "5031989"   "5033812"   "5044718"   "5045847"   "5061027"   "5064263"   "5078512"   "5083120"   "5096282"   "5101458"   "5101460"   "5101460"   "5102456"	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:22
4/18/06 11:07:24 AM	C:\Documents and Settings\repisro\My Documents\EAST\Workspaces\10540618.wsp					Page 2

## EAST Search History

L14	558	L13 not (L2 L3 L4 L5 L8 L9)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/18 08:22
L15	361	L14 and grating	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/18 08:22
L16	1	("7016569").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/18 08:22
L17	23	("20020067882"   "20030012539"   "20030034538"   "4959540"   "5250816"   "5293626"   "5325225"   "5416861"   "5430567"   "5434524"   "5508835"   "5515194"   "5537498"   "5677778"   "5708671"   "5812708"   "5889903"   "6008918"   "6125217"   "6330265"   "6351576"   "6690851"   "6829286").PN. OR ("7016569"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/18 08:22
L18	73	L1 not (L2 L3 L4 L5 L8 L9 L15 L16 L17)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/18 08:32
L19	2	("2003/0235370").URPN.	USPAT	OR	ON	2006/04/18 08:36

## EAST Search History

L20	63	(US-20020122629-\$ or US-20030206708-\$ or US-20030147617-\$ or US-20020136481-\$ or US-20010012423-\$ or US-20030235370-\$).did. or (US-6360038-\$ or US-5420947-\$ or US-5412743-\$ or US-6404958-\$ or US-6072925-\$ or US-5544268-\$ or US-5517589-\$ or US-6532324-\$ or US-6704480-\$ or US-6549708-\$ or US-6885804-\$ or US-6813399-\$ or US-6801690-\$ or US-6775427-\$ or US-6771857-\$ or US-6408123-\$ or US-5991480-\$ or US-5915053-\$ or US-5852702-\$ or US-5568574-\$ or US-5502779-\$ or US-5448659-\$ or US-5428695-\$ or US-5367582-\$ or US-4904045-\$ or US-4776661-\$).did. or (US-4047795-\$ or US-3871742-\$ or US-5101459-\$ or US-5061027-\$ or US-7003181-\$ or US-6973231-\$ or US-6891989-\$ or US-6879754-\$ or US-6870991-\$ or US-6850665-\$ or US-6706546-\$ or US-6343171-\$ or US-5778119-\$ or US-6236773-\$ or US-5673284-\$ or US-5648978-\$ or US-3904270-\$ or US-4707059-\$ or US-5436991-\$ or US-5140149-\$ or US-7020400-\$ or US-7016569-\$ or US-5276748-\$ or US-6351576-\$ or US-5016967-\$ or US-4274049-\$ or US-5444802-\$).did. or (US-6282219-\$ or US-7006732-\$). did. or (JP-61241712-\$).did. or (WO-2005050306-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/04/18 10:19
L21	53	L20 and (refractive near2 (index or indice))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/18 10:41
L22	7	L20 and (photo\$diode)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/18 10:42
S1	5	((("7006717") or ("5412743") or ("5420947") or ("6404958") or ("20020122629")).PN.	US-PGPUB; USPAT	OR	OFF	2006/04/17 13:04

## EAST Search History

S2	15	(("6118908") or ("4796975") or ("4645293") or ("3957341") or ("6072925") or ("5517589") or ("2003002789") or ("6360038") or ("5978524") or ("6141465") or ("5664032") or ("5544268") or ("6167169") or ("6078704") or ("5911018") or ("5912997")).PN.	US-PGPUB; USPAT	OR	OFF	2006/04/17 15:20
S3	16	(("6118908") or ("4796975") or ("4645293") or ("3957341") or ("6072925") or ("5517589") or ("20030002789") or ("6360038") or ("5978524") or ("6141465") or ("5664032") or ("5544268") or ("6167169") or ("6078704") or ("5911018") or ("5912997")).PN.	US-PGPUB; USPAT	OR	OFF	2006/04/17 15:19
S4	7	("6072925").URPN.	USPAT	OR	ON	2006/04/17 15:23
S5	3275	385/37.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/17 15:25
S6	3924	385/129-132.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/17 15:25
S7	298	S5 and S6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/17 15:25
S8	1	("6771857").URPN.	USPAT	OR	ON	2006/04/17 16:57

## EAST Search History

S9	626	("20010026659"   "20020191912"   "20020192850"   "20030091080"   "20030091081"   "20030169787"   "20030174961"   "3674335"   "3719906"   "3753157"   "3760292"   "3760297"   "3771129"   "3791715"   "3871742"   "3898585"   "3904270"   "3908121"   "3924931"   "3944812"   "3957341"   "3990780"   "3995936"   "4006432"   "4006963"   "4039249"   "4047795"   "4076381"   "4082425"   "4102560"   "4122479"   "4146297"   "4156206"   "4169001"   "4239329"   "4246568"   "4273411"   "4340300"   "4369202"   "4394060"   "4400616"   "4415226"   "4425023"   "4453801"   "4455063"   "4455064"   "4464762"   "4470661"   "4523803"   "4525687"   "4592043"   "4637684"   "4640592"   "4645293"   "4665528"   "4671603"   "4687286"   "4688900"   "4693548"   "4704720"   "4707059"   "4716570"   "4718052"   "4721352"   "4745616"   "4746186"   "4747649"   "4748614"   "4755015"   "4756587"   "4763972"   "4767169"   "4775980"   "4776661"   "4778991"   "4796273"   "4798429"   "4803696"   "4831631"   "4838630"   "4846540"   "4849080"   "4859014"   "4866694"   "4869568"   "4888785"   "4904045"   "4911516"   "4915482"   "4919507"   "4937808"   "4938568"   "4941722"   "4943556"   "4946253"   "4958357"   "4961632"   "4969712"   "4971415"   "5002369"   "5009483"   "5010458"   "5031983"   "5031989"   "5033812"   "5044718"   "5045847"   "5061027"   "5064263"   "5078512"   "5083120"   "5096282"   "5101458"   "5101460"   "5101460"   "5102456"	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/17 17:07
4/18/06 11:07:24 AM	C:\Documents and Settings\jreid\My Documents\	EAST\Workspaces\10540618.wsp				Page 6

## EAST Search History

S10	557	S9 not (S1 S2 S3 S4 S7 S8)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/18 08:22
S11	360	S10 and grating	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/17 17:20
S12	227	S11 and coupler	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/17 17:09
S13	336	S11 and coupl\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/17 17:09
S14	1	("7016569").PN.	US-PGPUB; USPAT	OR	OFF	2006/04/17 17:20
S15	23	("20020067882"   "20030012539"   "20030034538"   "4959540"   "5250816"   "5293626"   "5325225"   "5416861"   "5430567"   "5434524"   "5508835"   "5515194"   "5537498"   "5677778"   "5708671"   "5812708"   "5889903"   "6008918"   "6125217"   "6330265"   "6351576"   "6690851"   "6829286").PN. OR ("7016569"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/17 17:20